at1110paper_practice_test (v37)

1. Expand the following expression into standard form.

$$(7x + 2)^2$$

2. Solve the equation with factoring by grouping.

$$8x^2 - 20x + 6x - 15 \ = \ 0$$

3. Solve the equation.

$$(5x - 4)(8x + 3) \ = \ 0$$

4. Expand the following expression into standard form.

$$(7x - 8)(3x - 4)$$

5. Solve the equation.
$$7x^2 + 2x + 6 \;=\; 2x^2 - 5x + 4$$

6. Expand the following expression into standard form.
$$(9x + 5)(9x - 5)$$

7. Factor the expression.
$$x^2 + x - 42$$

8. Factor the expression.
$$64x^2 - 49$$